Remote Sensing Applications Division (RSAD)

CDR Program Office

Weekly Report for Dec 7, 2012
Jeff Privette, Acting Chief

IOC Transition Status – Dec 7, 2012

| #	CDR	Assemble IPT	Perform Assessment	Deliver source code sample and README draft	Deliver Flow Diagram Draft	Deliver C-ATBD Draft	Deliver Maturity Matrix Draft	Deliver Sample netCDF dataset	Deliver SA Draft	Provide feedback on source code and README	Provide feedback on Flow Diagram Draft	Provide feedback on C-ATBD Draft	Provide feedback on Maturity Matrix Draft	Provide feedback on Sample netCDF dataset	Provide feedback on SA Draft	Deliver final source code and README	Deliver final Flow Diagram	Deliver final C-ATBD	Deliver final Maturity Matrix	Deliver final netCDF dataset	Deliver final SA	Create Collection Level Metadata	Conduct Security Review	Archive Code Package	Put Docs in Library	Archive Data	Put dataset on THREDDS access server	Put data, docs, and code on web page	Conduct ORR
1	UAT 4Layer MW RSS	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	28-Nov	28-Nov	x	x	27-Nov	30-Nov	29-Nov	30-Nov	7-Dec	10-Dec	17-Dec
2	Vegetation Bundle	x	1-Jan																										
3	Cryosphere Bundle	x	x																										
4	Solar Irradiance Bundle	x	1-Jan																										
5	PERSIANN precipitation	x	1-Jan			x																							
6	Atmos Temp Bundle (MSU/AMSU/SSU)	x	1-Jan																										
7	Ocean Surface Bundle	x	1-Jan																										
8	Cloud/Moisture Bundle	x	1-Jan																										
9	OISST	x	x	x	x		x	x	x					x										x				x	x	
10	MSU/AMSU Temp Suite	x	1-Jan																										
11	ISCCP	x	1-Jan																										
12	MW Imager SSM/I(S)	x	x		x	x		x						x															

Notes:

1) **Final metadata worked out; Received full code drop**
2) **PI and SME at AGU this week**
5) **Received draft C-ATBD**
12) **Productive IPT meeting, reviewed metadata in detail**

PREDECISIONAL DRAFT INFORMATION
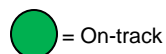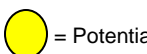
🟢 = On-track   🟡 = Potential management action required   🔴 = Management attention required

Other CDR Discussion Items

- **Management input needed on:**
  - **Solar time series (Pelewski) – call with PI needed.**
  - **Cryosphere (Key) – split into two IPTs? Proceed with transition on all or just part of CDR bundle?**

- **Initial Assessments in progress**
  - **about half the PIs sent items for assessment, the other half haven't created the data, code, and/or docs yet.**
  - **several PIs and SMEs at AGU this week**

SCHEDULE OF DELIVERABLES - CDRP 2012 O&M Contracts and Grants

Name of PI/Institution	Period of Performance	Implementation Plan	Main Update	Routine updates	QA Tools/Process	IP License?	CDRP action required?
Christy, J./UAH	9/15/12 - 9/14/13	11/7/2012	To be coordinated with CDRP, new version	Monthly/8th day of the succeeding month	12/15/2012	YES	YES - JG
Evans, B./UM (CICS-NC)	07/01/12 - 06/30/13	9/12/2012	Undergoing final QC at NODC	Monthly/10th day of the succeeding month	NCDC will not be performing QA	NO	YES - JG
Heidinger, A./NOAA-STAR	07/01/12 - 06/30/13	8/16/2012	N/A	Daily/Within 7days of the observation date	9/1/2012	N/A	NO
Ho, B./UCAR	9/17/12 - 9/16/13	11/5/2012	To be coordinated with CDRP, new version	Quarterly/10th day of the month following the end of the quarter	12/17/2012	YES	YES - JG
Mears, C./RSS (CICS-NC)	9/15/12 - 9/14/13	10/30/2012	N/A	Monthly/8th day of the succeeding month	12/15/2012	YES	YES - JG
Meier, W./U of CO	10/01/12 - 09/30/13	11/1/2012	3/31/2013	Quarterly/within 30days of each RSS data delivery	12/1/2012	YES	YES - JG
Robinson, D./Rutgers	09/11/12 - 09/10/13	10/11/2012	N/A	Monthly/5th day of the succeeding month	11/10/2012	YES	YES - JG
Wentz, F./RSS (CICS-NC)	09/15/12 - 09/14/13	11/1/2012	To be coordinated with CDRP, new version	Monthly/10th day of the succeeding month	12/1/2012	YES	YES - JG

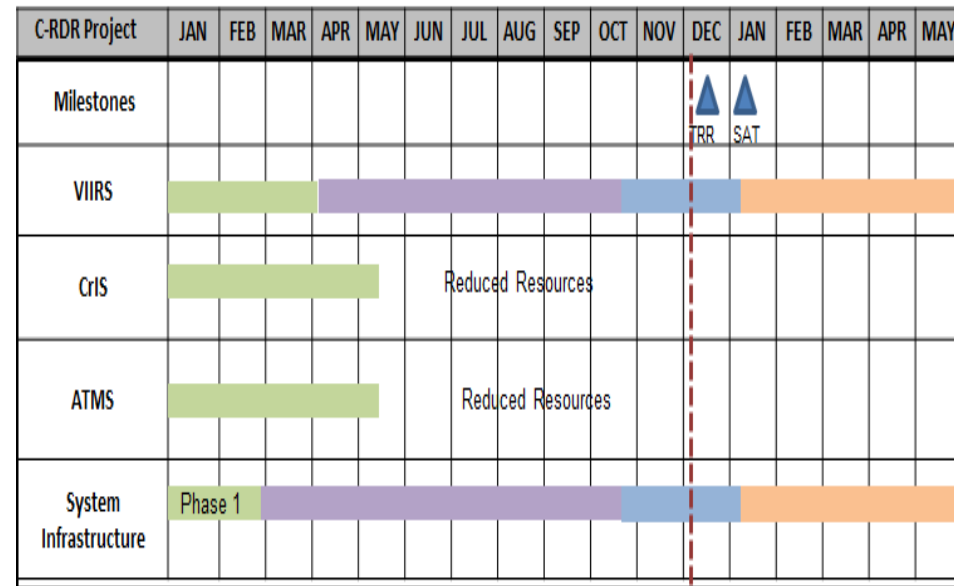|	
RECEIVED	
DEADLINE APPROACHING	
OVER DUE	

CDR Program Office
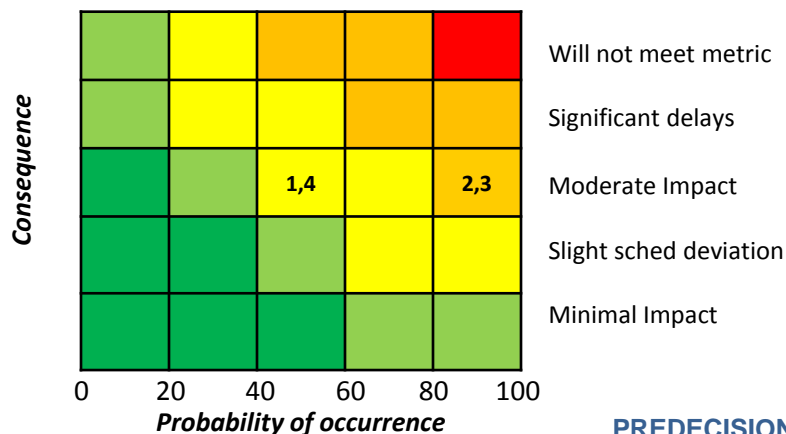## NPP/JPSS Climate Raw Data Records (C-RDRs) Project

Weekly Report – December 7, 2012

(1) VIIRS
- Completed code for C-RDR and Support Data..

(2) CrIS
- Postponed.

(3) ATMS
- Postponed.

(4) System Infrastructure
- Integrating with the VIIRS C-RDR.

- **Updating the System Acceptance Test proceedure.**
- **Developing validation code to create and compare verified RDRs.**
- **Integrating: Ingest data from CLASS and producing C-RDRs.**
- Will deliver initial version with ADL 3.1.

C-RDR Project	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
Milestones												TRR	SAT				
VIIRS																	
CrIS				Reduced Resources													
ATMS				Reduced Resources													
System Infrastructure	Phase 1																

R2O PHASE: ANALYSIS | DESIGN | DEVELOPMENT | INTEGRATION | TEST | OPERATIONAL

Risk Matrix

Consequence (y-axis):
- Will not meet metric
- Significant delays
- Moderate Impact — 1,4 ... 2,3
- Slight sched deviation
- Minimal Impact

Probability of occurrence (x-axis): 0 20 40 60 80 100
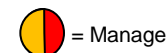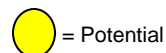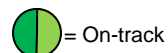
Risk and Mitigation

VIIRS, CrIS, ATMS –
- Resources are being reduced. Delivery of CrIS and ATMS will be delayed.
- Operational software is under maintenance, updated versions may affect C-RDR ported version.

System Infrastructure –
Reliability of NPP RDRs from CLASS. Need to test ingest of RDRs from CLASS and develop an automated mechanism for re-requesting data.
- Ability of CLASS to handle the frequency and volume of NPP data. CLASS has been successful during system tests.
- Archive in CLASS is currently cost prohibitive. Need to identify alternate archive. Plan to store C-RDRs on HPSS until migration to CLASS.

PREDECISIONAL DRAFT INFORMATION

12/10/2012

= On-track   = Potential management action required   = Management attention required
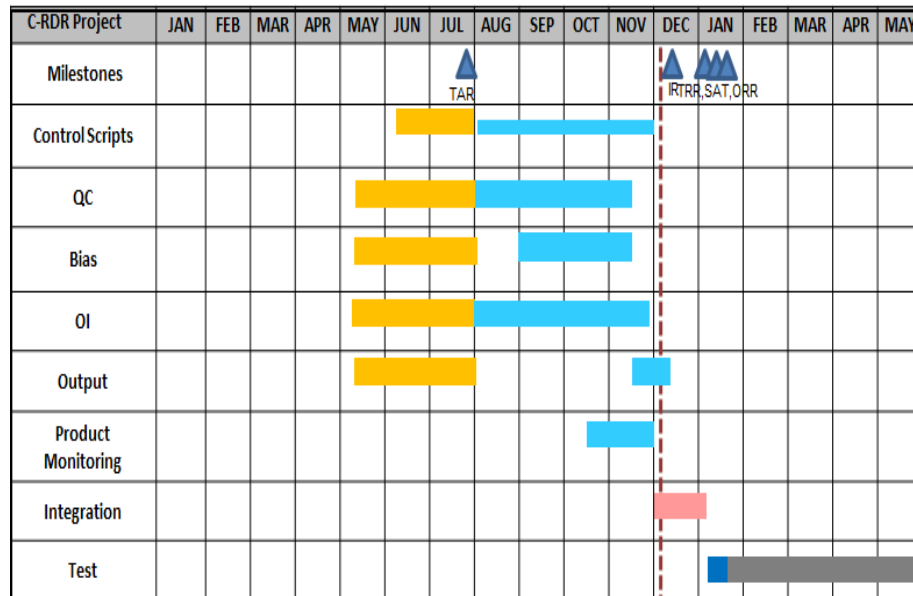
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Weekly Report – December 7, 2012

1 **OISST – Optimum Interpolated Sea Surface Temperature**

- **Need to update the schedule (2-3 week slip).**
- **Met to discuss implementations for loop exits and error checking.**
- **Refactoring code (Bias, QC, OI).**
- Implementing common logger calls .
- Integrated a common logging utility and identified log levels.
- Investigating the use of SPEC for product monitoring.
- Conducted code review, refactor and unit test of ship_bias.f90.
- Evaluating validity/duplicates in compile options & static analysis.
- Defined list of tasks for refactoring of each component.
- Developing tests (functional & component) to verify code.
- Completed testing of static analysis and complexity tools.
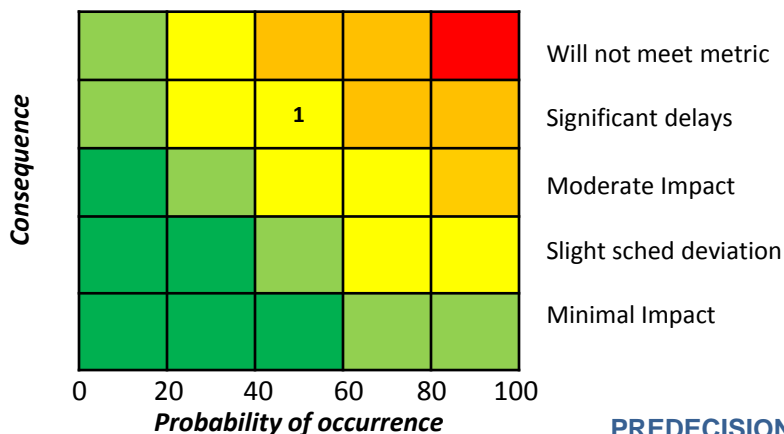- Conducted Technology Assessment Review July 25.

Operations:
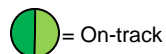- Updated and tested scripts to handle new sea ice data format.

C-RDR Project	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
Milestones							TAR					IRTRR,SAT,ORR					
Control Scripts																	
QC																	
Bias																	
OI																	
Output																	
Product Monitoring																	
Integration																	
Test																	

R2O PHASE: ANALYSIS | DESIGN | DEVELOPMENT | INTEGRATION | TEST | OPERATIONAL

Risk Matrix

Consequence (y-axis, top to bottom): Will not meet metric / Significant delays / Moderate Impact / Slight sched deviation / Minimal Impact

Probability of occurrence (x-axis): 0 20 40 60 80 100

Cell marked **1** at Significant delays / ~40-60 probability.
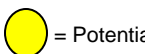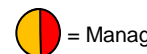
Risk and Mitigation

Resource availability for performing the transition.

Configuration Management (CM) process not defined for operations.

No Quality Assurance team available.

Modifying existing software for internal software changes. Product output must remain unchanged for users.

Common infrastructure for operations is not fully defined.

OISST processing will be on a 64 bit architecture.

PREDECISIONAL DRAFT INFORMATION

12/10/2012

= On-track   = Potential management action required   = Management attention required

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Weekly Report – December 7, 2012

1. FY12 PATMOS-x Final Report Presentation
- Presentation will be repeated Monday Dec 10 for Products Branch and others who missed the first time.

### 2. IOC to FOC / Software Rejuvenation Decision
- Questionnaire containing the seven evaluation criteria from the FY12 report was circulated to NCDC SMEs and PIs for their response November 27. No responses as yet.
- Decision-making process will include steps to assure stakeholder representation and consensus development. Guided by CMMI specific and generic practices for Decision Analysis and Resolution.

3. Planning
- Initiated an Agile methodology for this work using an adaptation of Scrum. The first two iterations will complete Dec 14 and January 11. Goal is to also implement over time those aspects of CMMI that are feasible for such a small project. Details will be presented soon.
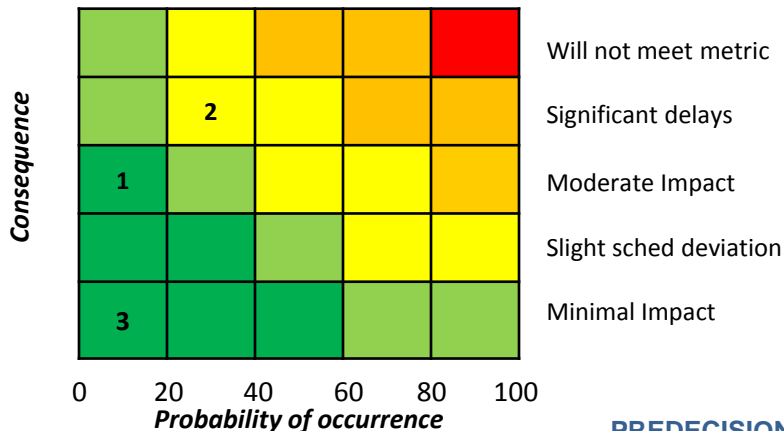
FY 13 IOC to FOC		N	Dec					Jan			Feb			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
		24-30	1-7	8-14	15-21	22-28	29-4	5-11	12-18	19-25	26-1	2-8	9-15	16-22	23-1	2-8	9-
Sprint	Principal Focus														
A	IOC to FOC Selection														
B	IOC to FOC Selection														
C	Project Planning														
D	TBD														
E	TBD														
F	TBD														
G	TBD														
H	TBD														
I	TBD														

Risk Matrix

Consequence (top to bottom): Will not meet metric / Significant delays / Moderate Impact / Slight sched deviation / Minimal Impact

Probability of occurrence — 0 20 40 60 80 100

Top Risks and Mitigation

R8. Personnel on task at maximum work load
- With recent budget cuts to the CDRP the personnel still engaged on this task are at maximum work level. More budget challenges could result in the loss of the remaining key personnel and jeopardize the completion of this task.

R10. No sustainable commitment for independent Quality Assurance
- QA will be performed by team. Risk is that this work will not be performed as well as it would be by an experienced, independent QA expert.

RXX. Delays in receiving responses to the seven evaluation criteria will delay the IOC to FOC decision making process.

Risk list needs update

12/10/2012